

8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Trace Analysis, Inc.

Certificate of Analysis Number:

07010867

Report To:

Trace Analysis, Inc.

Nell Green

6701 Aberdeen Avenue

Suite 9 Lubbock

TX 79424-

ph: (806) 794-1296

fax:

Project Name:

Site:

Trace Analysis

Lubbock, TX

Site Address:

PO Number:

State:

Texas

State Cert. No.:

T104704205-06-TX

Date Reported: 1

1/29/2007

This Report Contains A Total Of 12 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments



ph: (806) 794-1296

fax:

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

1/29/2007

Case Narrative for: Trace Analysis, Inc.

Certificate of Analysis Number:

07010867

Report To: **Trace Analysis** Project Name: Lubbock, TX Site: Trace Analysis, Inc. **Nell Green** Site Address: 6701 Aberdeen Avenue Suite 9 PO Number: Lubbock State: Texas TX 79424-State Cert. No.: T104704205-06-TX

Date Reported:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg\kg-dry" or " ug\kg-dry").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

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Trace Analysis

Lubbock, TX

Trace Analysis, Inc.

Certificate of Analysis Number:

07010867

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Fax To:

Trace Analysis, Inc.

Nell Green

6701 Aberdeen Avenue

Suite 9 Lubbock ΤX

79424-

ph: (806) 794-1296

fax: (806) 794-1298

PO Number:

Project Name:

Site Address:

State:

Site:

Texas

State Cert. No.:

T104704205-06-TX

Date Reported:

1/29/2007

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COCID	HOLD
114008	07010867-01	Water	1/12/2007	1/19/2007 10:00:00 AM	***************************************	
114010	07010867-02	Water	1/12/2007	1/19/2007 10:00:00 AM	O. T.F. CO. STOCK OF FEBRUARY STOCK	
114012	07010867-03	Water	1/12/2007	1/19/2007 10:00:00 AM		
114014	07010867-04	Water	1/12/2007	1/19/2007 10:00:00 AM		
114016	07010867-05	Water	1/12/2007	1/19/2007 10:00:00 AM		
114018	07010867-06	Water	1/12/2007	1/19/2007 10:00:00 AM		

50 a Ovidenas

1/29/2007

Erica Cardenas Project Manager Date

Joel Grice Laboratory Director

Ted Yen Quality Assurance Officer



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID: 114008 Collected: 01/12/2007 0:00 SPL Sample ID: 07010867-01

Site: Lubbock, TX

Analyses/Method	Result QUAL	Rep.Limit	Dil. Facto	•		Seq.#
SEMIVOLATILE HYDROCAR	BONS - GLYCOL		MCL S	W8015B	Units: mg/L	
Ethylene Glycol	23	20	1	01/26/07	5:21 MNR	3648459
Surr: Isobutanol	115	% 50-150	1	01/26/07	5:21 MNR	3648459

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: 114010 Collected: 01/12/2007 0:00 SPL Sample ID: 07010867-02

Site: Lubbock, TX

Analyses/Method	Result QUAL	Rep.L	.imit	Dil.	Facto	r Date Analy	zed Analy	/st Seq.#
SEMIVOLATILE HYDROCA	RBONS - GLYCOL			MCL	S	W8015B	Units: m	g/L
Ethylene Glycol	ND		20		1	01/26/07	5:45 MNR	3648460
Surr: Isobutanol	114	% 50	-150		1	01/26/07	5:45 MNR	3648460

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID: 114012 Collected: 01/12/2007 0:00 SPL Sample ID: 07010867-03

Site: Lubbock, TX

Analyses/Method	Result QUAL	Rep.Limit	Dil. Fac	tor Date Anal	yzed Analyst	Seq.#
SEMIVOLATILE HYDROC	ARBONS - GLYCOL		MCL	SW8015B	Units: mg/L	
Ethylene Glycol	ND	20	1	01/26/07	6:08 MNR	3648461
Surr: Isobutanol	113	% 50-150	1	01/26/07	76:08 MNR	3648461

- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID: 114014 Collected: 01/12/2007 0:00 SPL Sample ID: 07010867-04

Site: Lubbock, TX

Analyses/Method	Result QUAL	Rep.Limit	Dil. Fac	tor Date Anal	yzed Analyst	Seq.#
SEMIVOLATILE HYDROCA	ARBONS - GLYCOL		MCL	SW8015B	Units: mg/L	
Ethylene Glycol	ND	20	1	01/26/07	6:32 MNR	3648462
Surr: Isobutanol	116	% 50-150	1	01/26/07	6:32 MNR	3648462

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID: 114016 Collected: 01/12/2007 0:00 SPL Sample ID: 07010867-05

Site: Lubbock, TX

Analyses/Method	Result Q	UAL R	ep.Limit	Dil. Fact	•	zed Analyst	Seq.#
SEMIVOLATILE HYDROCA	RBONS - GLYCOL		· · · · · · · · · · · · · · · · · · ·	MCL	SW8015B	Units: mg/L	
Ethylene Glycol	ND		20	1	01/26/07	6:55 MNR	3648463
Surr: Isobutanol	115	%	50-150	1	01/26/07	6:55 MNR	3648463

- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- TNTC Too numerous to count

- D Surrogate Recovery Unreportable due to Dilution
- MI Matrix Interference



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID: 114018 Collected: 01/12/2007 0:00 SPL Sample ID: 07010867-06

Site: Lubbock, TX

Analyses/Method	Result QUAL	Rep	.Limit		Facto	r Date Analy	•	Seq. #
SEMIVOLATILE HYDROCA	RBONS - GLYCOL			MCL	-	W8015B	Units: mg/L	
Ethylene Glycol	ND		20		1	01/26/07	7:19 MNR	3648464
Surr: Isobutanol	114	% 5	0-150		1	01/26/07	7:19 MNR	3648464

- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- TNTC Too numerous to count

Quality Control Documentation



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Trace Analysis, Inc.

Trace Analysis

Analysis:

Semivolatile Hydrocarbons - Glycol

Method:

SW8015B

WorkOrder:

Samples in Analytical Batch:

r:

Lab Batch ID:

07010867 R190651

01/26/2007 1:51

Method Blank

mg/L

Lab Sample ID

Client Sample ID

Analysis Date:

RunID: HP_T_070126B-3648451

Units: Analyst:

MNR

07010867-01A

114008

07010867-02A 07010867-03A 114010

07010867-03A 07010867-04A 114012 114014

 Analyte
 Result
 Rep Limit

 Ethylene Glycol
 ND
 10

 Surr: Isobutanol
 102.1
 50-150

07010867-05A 07010867-06A

114016 114018

Laboratory Control Sample (LCS)

RunID:

HP_T_070126B-3648450

Units:

mg/L

Analysis Date:

01/26/2007 1:28

Analyst:

MNR

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Ethylene Glycol	400	398	99.5	61	135

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

07011071-01

RuniD:

HP_T_070126B-3648467

Units:

mg/L

Analysis Date:

01/26/2007 10:19

Analyst: MNR

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Ethylene Glycol	21.5	200	225	102	200	217	97.5	1	1	25	

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

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Sample Receipt Checklist And Chain of Custody



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Sample Receipt Checklist

Workorder: Date and Time Received: Temperature:	07010867 1/19/2007 10:00:00 AM 4°C		Received By: Carrier name: Chilled by:	AE UPS Water Ice
1. Shipping container/co	ooler in good condition?	Yes 🔽	No 🗌	Not Present
2. Custody seals intact	on shippping container/cooler?	Yes 🔽	No 🗆	Not Present
3. Custody seals intact	on sample bottles?	Yes 🗌	No 🗀	Not Present
4. Chain of custody pre	sent?	Yes 🔽	No 🗌	
5. Chain of custody sign	ned when relinquished and received?	Yes 🔽	No □	
6. Chain of custody agr	ees with sample labels?	Yes 🗹	No 🗔	
7. Samples in proper co	ontainer/bottle?	Yes 🔽	No 🗀	
8. Sample containers in	tact?	Yes ⊻	No 🗆	
9. Sufficient sample vol	ume for indicated test?	Yes 🔽	No 🗀	
10. All samples received	within holding time?	Yes 🔽	No 🗀	
11. Container/Temp Blan	k temperature in compliance?	Yes 🗹	No 🗌	
12. Water - VOA vials ha	ve zero headspace?	Yes 🗹	No 🗆 V	OA Vials Not Present
13. Water - Preservation	checked upon receipt (except VOA*)?	Yes []	No 🗌	Not Applicable ☑
*VOA Preservation C	hecked After Sample Analysis			
SPL Representat	ive:	Contact Date &	Time:	
Client Name Contac	ted:			
Non Conformance Issues:			,	
Client Instructions:				
l		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		A. VAXV.

070/086

6015 Harris Pkwy.. Suite 110 Ft Worth, Texas 76132 Tel (817) 201-5260

200 East Sunset Rd., Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443

LAB Order ID

FraceAnalysis, Inc.

6701 Aberdeen Avenue. Suite 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296

5002 Basin Street, Suite A1 Midland, Texas 79703 Tei (432) 689-6301 Fax (432) 689-6313

blol4 Trum Around Time if different from standard No. Dry Weight Basis Required Check If Special Reporting Limits Are Needed Circle or Specify Method TRRP Report Required ANALYSIS REQUEST Moisture Content Hq ,88T ,008 Pesticides 8081A / 608 PCB's 8082 / 608 3C/MS Semi: Vol. 8270C / 625 REMARKS CC/W2 API 8560B / 624 RCL TCLP Pesticides TCLP Semi Volatiles TCLP Volatiles TCLP Metals Ag As Ba Cd Cr Pb Se Hg LAB USE $^{\prime}\mathcal{S}_{|}$ Total Metals Ag As Bs Cd Cr Pb Se Hg 60108/200.7 ONEX Z } PAH 8270C / 625 Log-in-Review TPH 8015 GRO / DRO / TVHC Headspace TPH 418.1 / TX1005 / TX1005 Ext(C35) Temp_ Infact \$051B \ 602 \ 8260B \ 624 X3T8 8021B / 602 / 8260B / 624 **38TM** SAMPLING TIME 1 ß $\exists TAG$ 0 Time Time: 4 PRESERVATIVE METHOD NONE ICE 0 Sampler Signature: ИаОН Date: Date: Date ^bOS^zH Project Name HNO3 HCI E-mail: Fax#: Received at Laboratory by SUDDEE MATRIX ЯΙА TIOS MATER email: lab@traceanalysis.com Received by Received by: InnomA \ emuloV # CONTAINERS 7 Time: Time: FIELD CODE (Street, City, Zip) roject Location (including state) Date: Date: 800411 010 71 77014 0 If different from above) 7 ī slinguished by: Sompany Name Contact Person: palusinbuje **Slinguished** AB USE nvoice to: ddress: roject #: LAB#

ibmittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. SECC INTECIDO

Carrier #